BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Name of the Work: Improvements and Asphalting of roads and drains at Santhosh Nagar in Ward no 03

Estimate Amount : 5000000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Basic rate	*Sqm*							
	Area Wieght age @ 6%	*4.56*							
	Total Rate in Rs	*80.56*							
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103.6)		2	51.80	1.20		124.32		
	Deduction for damaged 10%						**124.32** -12.43		
							111.89	**80.56**	9013.70
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
	Basic rate	*Cum.*							
	Area Wieght age @ 6%	*82.00*							
	Total Rate in Rs	*4.92*							
	Desilting	*86.92*							
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		2	103.00	0.45	0.450	41.72		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)	L/s	1	135.20	0.50	0.500	33.80		
	Ch: (0 - 153)	R/s	1	140.30	0.50	0.500	35.08		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		2	88.50	0.45	0.500	39.83		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		2	96.00	0.45	0.500	43.20		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		2	92.00	0.50	0.500	46.00		
							239.62	**86.92**	20827.34
	Sub total-1								29841.03
	ROAD WORKS								

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
3	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*46.00*							
	Area Wieght age @ 6%	*2.76*							
	Total Rate in Rs	*48.76*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40	0.425	280.16		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50	0.425	422.66		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70	0.425	296.14		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05	0.425	206.04		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40	0.425	250.24		
							1455.24	**48.76**	**70957.62**
4	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*1571.00*							
	Area Wieght age @ 6%	*94.26*							
	Total Rate in Rs	*1665.26*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40	0.150	98.88		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50	0.150	149.18		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70	0.150	104.52		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05	0.150	72.72		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40	0.150	88.32		
							513.62	**1665.26**	**855302.51**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
5	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(Page No 158., I.No.20.18 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*1668.00*							
	Area Wieght age @ 6%	*100.08*							
	Total Rate in Rs	*1768.08*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40	0.225	148.32		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50	0.225	223.76		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70	0.225	156.78		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05	0.225	109.08		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40	0.225	132.48		
							770.42	**1768.08**	**1362168.61**
6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502								
	(Page No 161., I.No.21.6 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	*26.00*							
	Area Wieght age @ 6%	*1.56*							
	Total Rate in Rs	*27.56*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40		659.20		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50		994.50		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70		696.80		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05		484.80		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40		588.80		
							3424.10	**27.56**	**94368.20**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	*11.00*							
	Area Wieght age @ 6%	*0.66*							
	Total Rate in Rs	*11.66*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40		659.20		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50		994.50		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70		696.80		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05		484.80		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40		588.80		
							3424.10	**11.66**	**39925.01**
8	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*6071.00*							
	Area Wieght age @ 6%	*364.26*							
	Total Rate in Rs	*6435.26*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40	0.050	32.96		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50	0.050	49.73		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70	0.050	34.84		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05	0.050	24.24		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40	0.050	29.44		
							171.21	**6435.26**	**1101748.69**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
9	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509								
	(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*6859.00*							
	Area Wieght age @ 6%	*411.54*							
	Total Rate in Rs	*7270.54*							
	new contruction								
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		1	103.00	6.40	0.030	19.78		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		1	153.00	6.50	0.030	29.84		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		1	104.00	6.70	0.030	20.90		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		1	96.00	5.05	0.030	14.54		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		1	92.00	6.40	0.030	17.66		
							102.72	**7270.54**	**746851.68**
10	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.								
	.(Refer Table. Page No.140)								
		Cum.							
	Basic rate	*90.40*							
	Total Rate in Rs	*90.40*							
				For item no	2		239.62		
				For item no	3		1455.24		
							1694.86	**90.40**	**153215.12**
				Sub total-2					**4424537.44**
	ROAD FURNITURES								
11	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
	(Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	512.00							
	Area Wieght age @ 6%	*30.72*							
	Total Rate in Rs	*542.72*							
	Road Marking								

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	3rd Cross from M Ramadasappa road to dead end								
	Ch: (0 - 103)		2	103.00	0.10		20.60		
	1st Cross road from SLV Archade to Attur main road								
	Ch: (0 - 153)		2	153.00	0.10		30.60		
	4th Main road from 1st cross road to M Ramadasappa Road								
	Ch: (0 - 104)		2	104.00	0.10		20.80		
	3rd Cross road from dead end to dead end								
	Ch: (0 - 96)		2	96.00	0.10		19.20		
	2nd Cross road from dead end to dead end								
	Ch: (0 - 92)		2	92.00	0.10		18.40		
							109.60	542.72	59482.11
	Sub Total-3								59482.11
	Total								4513860.58
12	Cost towards Preperation of DPR,PMC/QC @ 1%								45138.61
13	Cost of Plastic @ 8% of bitumen qty for BC	Kg	1	1158.72				27.00	31285.32
14	Cost towards KIRDL Charges @ 9%								406247.45
15	Misclenous and other charges								3468.04
	Grand Total								5000000.00

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Consultant:
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:3
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only

AEE
yelahanka Sub division
BBMP

P-0190

Executive Engineer
yelahanka division
BBMP

Technical Sanction
Accorded For 50.00 lakhs.
Head of A/C P 0190
CER NO : "38" Dt: 27.5.17

TA CE (YNK)

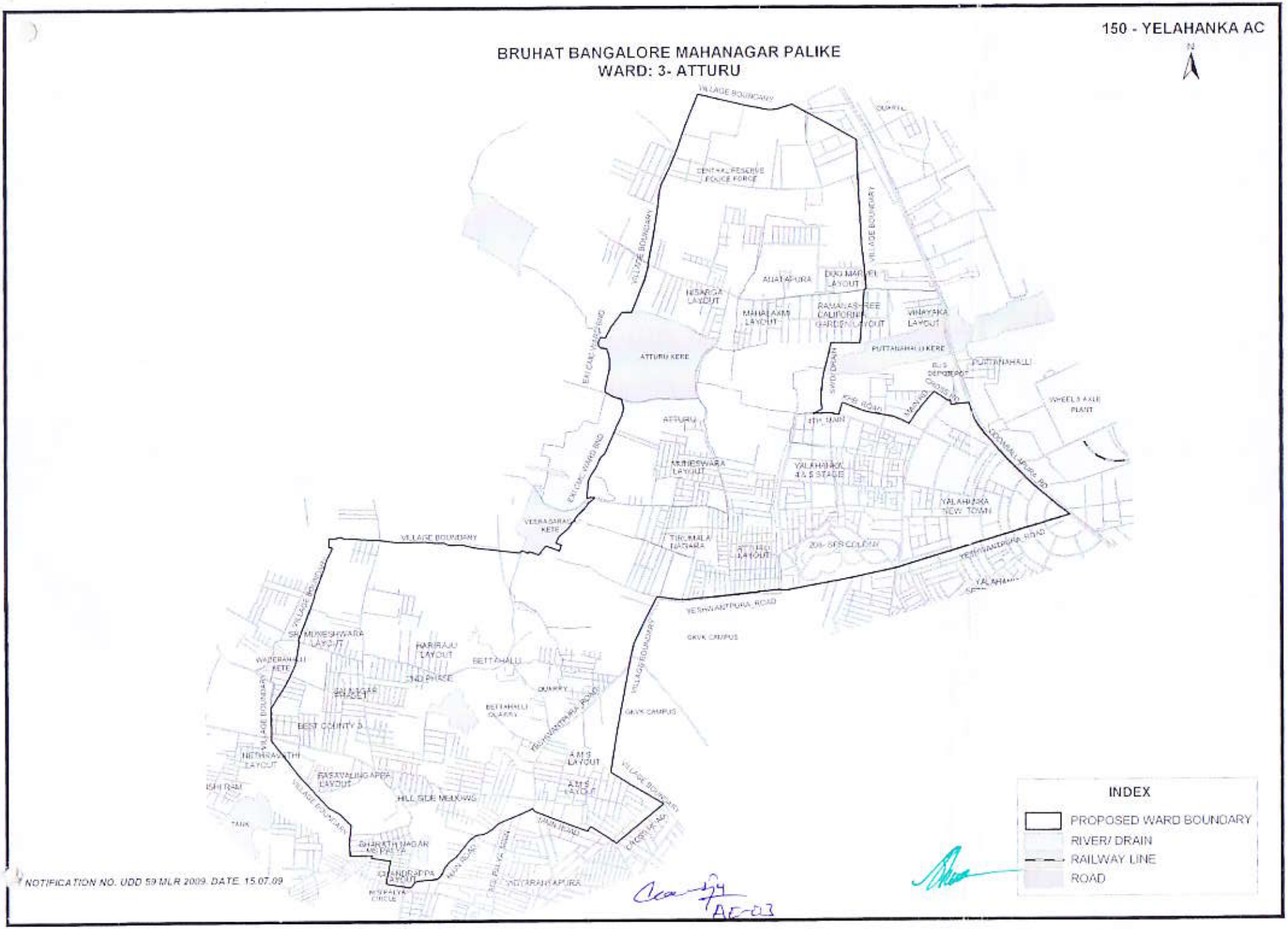
enclosed memo EE( ) ... dated
Dt 5/5/17
dated 5-5-2017 for 50.00 lakhs.

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

| | | |

150 - YELAHANKA AC

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 3- ATTURU



NOTIFICATION NO. UDD 59 MLR 2009, DATE. 15.07.09

AE-03